

464-389

3/1/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 1 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Rhonda Vance-Moeser
The Dow Chemical Company
1803 Building
Midland, MI 48674

Subject: **DBNPA 100 POWDER**
EPA Registration No.: 464-389
Application Date: January 30, 2013
Receipt Date: January 31, 2013

Dear Ms. Vance-Moeser:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c) 9.

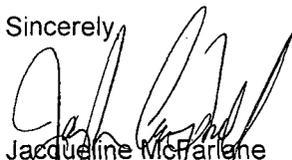
Proposed Notification: Updating Directions for Use: Water Soluble

General Comment:

Based on a review of the material submitted, your notification to update as referenced above is acceptable and a copy has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, you may contact me by telephone at (703) 308-6416 or by e-mail at campbell-mcfarlane.jacqueline@epa.gov or Stacey Grigsby by telephone at (703) 305-6440 or by e-mail at grigsby.stacey@epa.gov during the hours of 8:00am to 4:00pm EST. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,



Jacqueline McFarlane
Product Manager (B4)
Regulatory Management Branch II
Antimicrobials Division (7510P)



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 464-389	2. EPA Product Manager Jacquie Campbell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) The Dow Chemical Company/ DBNPA 100 Powder	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) The Dow Chemical Company 1803 Building Midland, MI 48674 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to correct phrase on EPA label stamped 1-7-2013.
 Required Notification statement on enclosed cover letter.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph	<input type="checkbox"/> Paper glued	<input type="checkbox"/> Stenciled	<input type="checkbox"/> Other _____

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rhonda Vance-Moeser	Title Product Steward Reg. Mgr.	Telephone No. (include Area Code) (989) 636-1884
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature Rhonda Vance-Moeser <small>Digitally signed by Rhonda Vance-Moeser DN: cn=Rhonda Vance-Moeser, o=Dow, email=rvgmoeser@dow.com, c=US Date: 2013.01.30 09:21:46 -0500</small>	3. Title Product Steward Reg. Mgr	
4. Typed Name Rhonda Vance-Moeser	5. Date January 30, 2013	



3/10

The Dow Chemical Company
Midland, MI 48674
U.S.A.

January 30, 2013

Office of Pesticide Programs (7504P)
Document Processing Desk (NOTIF)
U. S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, Virginia 22202-4501

Overnight Mail

RE: NOTIFICATION – EPA REG. NO. 464 – 389 - DBNPA 100 POWDER

The Dow Chemical Company (Dow) hereby submits a Notification to change EPA label dated 1-7-13.
Section: INDUSTRIAL PROCESSES AND PRODUCTS - PROCESS WATER CLEANUP

From:

Label language for product supplied in water soluble packaging

To reduce microbial contamination in raw materials used to make industrial products, add product directly to the raw material at a concentration of one bag per 2,500-40,000 lbs raw material.

To:

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in process water used to make industrial products, add product directly to the process water at a concentration of one bag per 2,500 -40,000 lbs process water.

In order for the application to be processed the required Notification statement is included below.

“This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject enforcement action and penalties under section 12 and 14 of FIFRA”

Enclosed are the following documents to support this notification

- 1) Completed application for Pesticide Registration, Form 8570-1.
- 2) Required notification statement above & three label copies with one highlighted indicating change.

Please contact me if you have any questions or need additional information.

Sincerely,

Rhonda Vance-Moeser

Rhonda Vance-Moeser
Product Stewardship Regulatory Manager
1691 N. Swede Road, Larkin Lab
Midland, MI 48674
Phone: (989) 636-1884 e-mail: rgvmoeser@dow.com

Enclosures

NPA 100 Powder

[Brackets indicate phrases that will
[MASTER LIST]

FOR INDUSTRIAL USE

Client(s):
 no-3-nitropropionamide 97.6%
 ent(s): 2.4%
 100.0%

**KEEP OUT OF REACH OF CHILDREN
 DANGER**

**PRECAUTIONARY STATEMENTS -
 Hazards to Humans and Domestic Animals
 DANGER**

• Causes irreversible eye damage • May be fatal if inhaled or causes skin irritation • Harmful if absorbed through the skin. • Do not breathe dust. • When loading wear protective eyewear (goggles or face shield), long-sleeved shirt, socks, shoes, chemically resistant gloves and a NIOSH respirator • Prolonged or frequently repeated skin contact may cause irritation in some individuals • Wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or food • Remove and wash contaminated clothing separately from other laundry.

Protective Equipment

Other handlers must wear:
 • Long-sleeved shirt and long pants
 • Chemically resistant footwear
 • Safety glasses
 • Instant gloves (such as barrier laminate, butyl nitrile/neoprene rubber, etc.)

Usage Controls

Usage for product supplied as powder in general packaging:
 Users use closed metering systems, the handler requirements may be modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses.

Usage for product supplied in water soluble packaging:
 Users use water soluble bags the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses.

Usage for product supplied in canisters for feeder device:
 Users use feeder devices the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses.

Usage Instructions

Follow manufacturer's instructions for cleaning & maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Usage Procedures

Wash hands before eating, drinking, chewing gum, using tobacco or using other products. Remove clothing immediately if pesticide gets inside. Then wash immediately and put on clean clothing. Users must remove PPE immediately after using this product. Wash the outside of gloves before removing. As soon as possible, thoroughly and change into clean clothing.

Usage Restrictions

Do not use this product directly in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during use.

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call an emergency responder or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.
Have product container or label with you when calling a poison control center or doctor or going for treatment.	

HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 989-636-4400.

NOTE TO PHYSICIAN

Maintain adequate ventilation and oxygenation of the patient. Material may cause severe pulmonary edema. For persons receiving significant exposure to this material, consider chest x-ray and keep under observation for 48 - 72 hr. for delayed onset of pulmonary edema. Humidified oxygen, intermittent positive pressure breathing, assisted respiration/CPAP and steroid therapy should be considered in treatment. Physical exertion may potentiate exposure effects during the first 24 - 72 hours. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

E.P.A. Registration No. 464-389
 E.P.A. Est. No. XXX-XX-XXX

NET WT: XXX lb / XXX kg

[Option for product supplied in water soluble packaging:] Net Contents: _____

[Option for product supplied in canisters for feeder device:] Net Contents: _____

LOT: _____

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Brackets indicate phrases that will not appear on printed label] [MASTER LABEL]

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FIRST AID

Open and rinse slowly and gently with water for 30 minutes. Contact lenses, if present, after the first 5 minutes, then continue to rinse.

Get medical attention. Go to a hospital or doctor for treatment advice.

Contaminated clothing. Remove contaminated clothing and shoes. Wash immediately with plenty of water for 15–20 minutes. Get medical attention. Go to a hospital or doctor for treatment advice.

Get medical attention. Go to a hospital or doctor immediately for treatment advice. Do not sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

Do not breathe anything by mouth to an unconscious person.

Get to fresh air. If not breathing, call an emergency responder or an ambulance, then start artificial respiration, preferably mouth-to-mouth. Get medical attention. Go to a hospital or doctor for further treatment advice.

Do not breathe with you when calling a poison control center or doctor or going for medical help.

If a life-threatening situation involving this product, call collect 989-989-8888.

In case of respiratory distress or oxygenation of the patient. Material may cause severe pulmonary irritation. Significant exposure to this material, consider chest x-ray and keep patient in a hospital for 2 hr. for delayed onset of pulmonary edema. Humidified oxygen, assisted ventilation, assisted respiration/CPAP and steroid therapy should be considered. Avoid exertion. Avoid heat. Avoid alcohol. Avoid strenuous physical exertion may potentiate exposure effects during the first 24–72 hours. Sensitization or asthma-like symptoms. Bronchodilators, expectorants may help. Treat bronchospasm with inhaled beta2 agonist and oral corticosteroids. Chemical eye burns may require extended irrigation. Obtain prompt medical attention from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Treatment of exposure should be directed at the control of symptoms. Treatment of the patient.

ENVIRONMENTAL HAZARDS

Avoid contact with aquatic organisms. Apply this product only as specified on this label or by cleaning of equipment, or disposal of wastes. Do not discharge into lakes, streams, ponds, estuaries, oceans or other waters unless authorized by a National Pollutant Discharge Elimination System (NPDES) permit. If a permit has been notified in writing prior to discharge. Do not discharge into sewer systems without previously notifying the local sewage treatment plant. For further guidance contact your State Water Board or Regional Office of the EPA.

E.P.A. Registration No. 464-389
E.P.A. Est. No. XXX-XX-XXX

XXX kg

[Supplied in water soluble packaging:] Net Contents: _____

[Supplied in canisters for feeder device:] Net Contents: _____

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage:
Label language for product supplied as powder in general packaging:
To maintain product quality, store at temperatures below 35°C. Keep container tightly closed when not in use.
Label language for product supplied in water soluble packaging:
To maintain product quality, store at temperatures below 35C. Keep container tightly closed when not in use. Do not remove from container except for immediate use. DO NOT remove the product from water soluble bag.
Label language for product supplied in water soluble packaging with additional plastic wrapper:
To maintain product quality, store at temperatures below 35C. Keep container tightly closed when not in use. Do not remove from container except for immediate use. When ready to use REMOVE outer plastic packaging: DO NOT remove the product from water soluble bag.
Label language for product supplied in canisters for feeder device:
To maintain product quality, store at temperatures below 35C. Keep canister (jar) closed and in original packaging until ready to use in feeder device.

Pesticide Disposal:
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Label language for product supplied as powder in general packaging:
Non refillable container. Do not reuse or refill container. Completely empty into application equipment by shaking and tapping sides and bottom of container to loosen clinging particles. Then offer empty container for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
Label language for product supplied in water soluble packaging:
Non refillable container. Do not reuse or refill container. Completely empty into application equipment by shaking and tapping sides and bottom of container to loosen clinging particles. Then offer empty container for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
Label language for product supplied in water soluble packaging with additional plastic wrapper:
Nonrefillable container. Do not reuse or refill container or bag liners. Completely empty container and bag liners by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mix tank. Then offer for recycling if available, or dispose of container and liners in a sanitary landfill or by other procedures approved by state and local authorities.
Label language for product supplied in canisters for feeder device:
Nonrefillable container. Do not reuse or refill canisters. Completely empty canisters by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mix tank. Rinse canister three times, then offer for recycling if available, or dispose of canisters in a sanitary landfill or by other procedures approved by state and local authorities. If feeder device is contaminated and cannot be reused, dispose of it in the manner required for canisters.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Produced For – When produced by a contract manufacturer
NOTIFICATION
Date Reviewed: 3/1/2013
Reviewed By: S. [Signature]


The Dow Chemical Company
Midland, Michigan 48674
(989) 636-4400
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DBNPA 100 Powder

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling.

NOTE: PRODUCT MUST BE ADDED SEPARATELY TO THE SYSTEM. DO NOT MIX WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF THE ACTIVE INGREDIENT DUE TO THE HIGH pH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add a solution of product at the rate of 0.03-0.10 lb. product/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It must be made with a metering pump or chemical feeder device at a location that will ensure uniform distribution of product in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks. HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.03-0.07 lb. product/ton of paper (dry basis), as necessary for control.

MODERATELY FOULED SYSTEMS must be treated continuously with 0.07-0.10 lb. product/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.03-0.07 lb. product/ton of paper, on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

SLIGHTLY FOULED SYSTEMS must be treated continuously with 0.03-0.07 lb. product/ton of paper (dry basis) until slime is controlled, then added on an intermittent basis to maintain control.

Label language for product supplied in water soluble packaging:

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add a solution of product at the rate of 0.03-0.10 lb. product/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It must be made with a metering pump or chemical feeder device at a location that will ensure uniform distribution of product in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks. HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.03-0.07 lb. product/ton of paper (dry basis), as necessary for control.

MODERATELY FOULED SYSTEMS must be treated continuously with 0.07-0.10 lb. product/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.03-0.07 lb. product/ton of paper, on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

SLIGHTLY FOULED SYSTEMS must be treated continuously with 0.03-0.07 lb. product/ton of paper (dry basis) until slime is controlled, then added on an intermittent basis to maintain control.

Label language for product supplied in canisters for feeder device:

Not applicable.

INDUSTRIAL OR COMMERCIAL COOLING WATER SYSTEMS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

Not intended for use in once-through cooling systems.

Label language for product supplied as powder in general packaging:

For control of microbial growth in industrial or commercial cooling water systems use either continuous or slug dosing.

Note: A solution of product may be made on site for dosing the system.

DO NOT MIX the product solution with other additives, in order to avoid decomposition of the active ingredient due to the high pH of many additive formulations.

CONTINUOUS FEED

Add product to metering device for continuous feed. Add 1-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment.

SLUG DOSING

Add product to basin of cooling system or at any other point of uniform mixing. Add 5-24 ppm product to the water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than 24 ppm product in system water per day. Badly fouled systems must be cleaned before treatment.

Label language for product supplied in water soluble packaging:

For control of microbial growth in industrial or commercial cooling water systems the product may be used for intermittent or slug dosing.

INTERMITTENT or SLUG DOSING

Add one bag for every 5,000-24,000 gallons of water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than one bag per 5,000 gallons of water per day. Badly fouled systems must be cleaned before treatment.

Label language for product supplied in canisters for feeder device:

For control of microbial growth in industrial or commercial cooling water systems the product may be used with the appropriate feeder to provide up to four weeks of control. Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired dosing level. Use product in canisters to continuously dose system. Add 1-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

NOTE: For use only in industrial air-washer systems that maintain effective mist eliminating components.

Label language for product supplied as powder in general packaging:

For control of microbial growth in air washer systems use either continuous or slug dosing.

Note: A solution of product may be made on site for dosing the system. DO NOT MIX the product solution with other additives, in order to avoid decomposition of the active ingredient due to the high pH of many additive formulations.

CONTINUOUS FEED

Add product using metering device for continuous feed. Add 4-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment.

SLUG DOSING

Add product to basin of system or at any other point of uniform mixing. Add 1-24 ppm product to the water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than 24 ppm product in system water per day. Badly fouled systems must be cleaned before treatment.

Label language for product supplied in water soluble packaging:

For control of microbial growth in air washer systems the product may be used for intermittent and slug dosing.

INTERMITTENT or SLUG DOSING

Add one bag for every 5,000 - 120,000 gallons of water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than one bag per 5,000 gallons of water per day. Badly fouled systems must be cleaned before treatment.

Label language for product supplied in canisters for feeder device:

For control of microbial growth in air washer systems the product may be used with the appropriate feeder to provide up to four weeks of control.

Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired dosing level. Use product in canisters to continuously dose system. Add 4-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment is begun.

MEMBRANE SYSTEMS FOR INDUSTRIAL WATER

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

Label language for product supplied as powder in general packaging:

Alternate label language for product supplied in water soluble packaging:

Product may be used for control of microbial growth and to reduce biofouling in: osmosis, ultrafiltration, nanofiltration, and microfiltration used for industrial water. Product should not be added in the presence of sodium bisulfite or other added to the feed water of the membrane system. In some situations it must be suspended at least 15 minutes prior to the addition of product deactivation of the active ingredient.

Online cleaning

The product may be added to the RO feed water at a rate of 0.2 to 20 ppm based on the service cycle feed water on a regular basis using an addition cycle of at least 15 minutes or as necessary in order to maintain RO productivity performance. Dosage should be applied each day for several hours until the system performance declines.

Offline cleaning

Product may be added to the feed tank used for an off-line chemical cleaning procedure to 40 ppm based on the total amount of solution in the feed tank. Following the circulate or soak for 1 to 3 hours to ensure sufficient contact for all RO membrane. Frequency of addition should be every 5 days or as needed.

NOTE: Reverse Osmosis (RO) concentrate streams must not be discharged to air or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination Act (NPDES). Discharge of RO concentrate streams to sewer systems may require plant authority. For guidance contact your State Water Board or Regional Office of the State Water Resources Control Board.

Label language for product supplied in canisters for feeder device:

Not applicable

PUBLICLY-OWNED TREATMENT WORKS

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

Label language for product supplied in water soluble packaging:

TO CONTROL COLIFORM AND OTHER BACTERIA

Add product at a concentration of 0.2 to 2 ppm by weight of water being treated to control contamination in the system. Addition should be CONTINUOUS and must be made in a location where contact will be rapid and thorough. Add product to the system in a location where contact is reaching the outfall.

TO USE AS A CO-TREATMENT WITH CHLORINE

Add 0.08-0.3 ppm product by weight of water treated. Chlorination must result in a residual chlorine greater than zero but less than the NPDES permit level. Addition must be CONTINUOUS. Rapid mixing is necessary for maximum effectiveness. Provide a contact time of 10 minutes or longer will be provided before reaching the outfall.

Label language for product supplied in canisters for feeder device:

Not applicable

INDUSTRIAL WASTEWATER SYSTEMS

Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

Label language for product supplied in water soluble packaging:

The product may be added to a wastewater system or sludge at a convenient point. Add 25-400 ppm by weight.

Label language for product supplied in canisters for feeder device:

Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL PROCESSES & PRODUCTS

Not registered for this use in the State of California - [Optional]

The product is not intended for use in personal care products.

PROCESS WATER CLEAN UP

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-200 ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-200 ppm by weight.

Label language for product supplied in canisters for feeder device:

For control of microbial growth in process water used to make consumer, household or institutional products, add product to the water in the system at a rate of 25-200 ppm per day depending on the severity of contamination.

RAW MATERIAL CLEAN UP

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add product directly to the raw material at a concentration of 25-200 ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add product directly to the raw material at a concentration of 25-200 ppm by weight.

Label language for product supplied in canisters for feeder device:

For control of microbial growth in raw materials used to make consumer, household or institutional products, add product to the raw material at a concentration of 25-200 ppm per day depending on the severity of contamination.

DIRECT PRODUCT ADDITION

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in formulated products such as hard surface cleaners, floor polishes, and other water based formulations, add 25-50 ppm by product weight to the final product prior to packaging. Thorough mixing is recommended.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in formulated products such as hard surface cleaners, floor polishes, and other water based formulations, add one bag of product per 200 lbs of final product prior to packaging. Thorough mixing is recommended.

Label language for product supplied in canisters for feeder device:

Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL RECYCLE WATER, RECYCLE WASTEWATER

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

The product may be added to recycle process water, a recycle product stream or add product to the final product prior to packaging. Add 25-200 ppm by weight.

Label language for product supplied in water soluble packaging:

The product may be added to recycle process water, a recycle product stream or add product to the final product prior to packaging. Add 25-200 ppm by weight.

Label language for product supplied in canisters for feeder device:

The product may be added to recycle process water, a recycle product stream or add product to the final product prior to packaging. Add 25-200 ppm by weight.

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MEMBRANE SYSTEMS FOR INDUSTRIAL WATER

Not registered for this use in the State of California - [Optional] Not registered for this use in the State of California

Label language for product supplied as powder in general packaging: Alternate label language for product supplied in water soluble packaging: Product may be used for control of microbial growth and to reduce biofouling in various membrane system types (reverse osmosis, ultrafiltration, nanofiltration, and microfiltration) used for industrial water processing. Product should not be added in the presence of sodium bisulfite or other reducing agents which are being added to the feed water of the membrane system. In some situations the addition of any reducing agents must be suspended at least 15 minutes prior to the addition of product in order to avoid neutralization and deactivation of the active ingredient.

Online cleaning The product may be added to the RO feed water at a rate of 0.2 to 20 ppm based on the feed water flow rate. Apply product to the service cycle feed water on a regular basis using an addition cycle of at least 30 minutes. The frequency of addition may be daily or as necessary in order to maintain RO productivity performance. For highly fouled systems, a 20 ppm dosage should be applied each day for several hours until the system performance has recovered.

Offline cleaning Product may be added to the feed tank used for an off-line chemical cleaning procedure. Addition should be at a rate of 1 to 40 ppm based on the total amount of solution in the feed tank. Following the complete transfer of feed solution, re-circulate or soak for 1 to 3 hours to ensure sufficient contact for all RO membrane modules with the DBNPA solution. Frequency of addition should be every 5 days or as needed.

NOTE: Reverse Osmosis (RO) concentrate streams must not be discharged to lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System Permit (NPDES). Discharge of RO concentrate streams to sewer systems may require approval of the local sewer treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Label language for product supplied in canisters for feeder device: Not applicable

PUBLICLY-OWNED TREATMENT WORKS

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: Label language for product supplied in water soluble packaging: TO CONTROL COLIFORM AND OTHER BACTERIA Add product at a concentration of 0.2 to 2 ppm by weight of water being treated, depending on the severity of contamination in the system. Addition should be CONTINUOUS and must be made at a point in the system where mixing will be rapid and thorough. Add product to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

TO USE AS A CO-TREATMENT WITH CHLORINE Add 0.08-0.3 ppm product by weight of water treated. Chlorination must result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Addition must be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. Product must be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall. Label language for product supplied in canisters for feeder device: Not applicable

INDUSTRIAL WASTEWATER SYSTEMS

Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: Label language for product supplied in water soluble packaging: The product may be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 25-400 ppm by weight. Label language for product supplied in canisters for feeder device: Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL PROCESSES & PRODUCTS

Not registered for this use in the State of California - [Optional]

The product is not intended for use in personal care products. PROCESS WATER CLEAN UP Label language for product supplied as powder in general packaging: To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-200 ppm by weight. Label language for product supplied in water soluble packaging: To reduce microbial contamination in process water used to make consumer, household or institutional products, add one bag per 600-4793 gal of process water. Label language for product supplied in canisters for feeder device: For control of microbial growth in process water used to make consumer, household or institutional products. Place product in feeder device to continuously dose system at a rate of 25-200 ppm per day of product to the water in the system, depending on the severity of contamination.

RAW MATERIAL CLEAN UP Label language for product supplied as powder in general packaging: To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add the product directly to the raw material at a concentration of 25-200 ppm by weight.

Label language for product supplied in water soluble packaging: To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add one bag of product directly to the raw material per 5,000-40,000 lbs of raw material. Label language for product supplied in canisters for feeder device: Not applicable

DIRECT PRODUCT ADDITION Label language for product supplied as powder in general packaging: To reduce microbial contamination in formulated products such as hard surface cleaners, laundry detergent, fabric softeners and other water based formulations, add 25-50 ppm by product weight directly to the final product prior to packaging. Thorough mixing is recommended. Label language for product supplied in water soluble packaging: To reduce microbial contamination in formulated products such as hard surface cleaners, laundry detergent, fabric softeners and other water based formulations, add one bag of product per 20,000-40,000 lbs of formulated product directly to the final product prior to packaging. Thorough mixing is recommended after addition and prior to packaging. Label language for product supplied in canisters for feeder device: Not applicable

Label language for product supplied in canisters for feeder device: Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: The product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add 25 to 200 ppm by weight. Label language for product supplied in water soluble packaging: The product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add one bag per 600-4793 gal of water or 5,000-40,000 lbs recycled product. Label language for product supplied in canisters for feeder device: The product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Place product in feeder device to continuously dose system at a rate of 25-200 ppm per day of product depending on the severity of contamination. Place feeder device at a convenient point of uniform mixing.

INDUSTRIAL PROCESSES & PRODUCTS

Not registered for this use in the State of California - [Optional] Not registered for this use in the State of California

This includes raw materials and/or products such as aqueous paints and coating latex and resin emulsions and surfactants.

PROCESS WATER CLEAN UP Label language for product supplied as powder in general packaging: To reduce microbial contamination in process water used to make industrial product water at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging: To reduce microbial contamination in process water used to make industrial product water at a concentration of one bag per 2,500-40,000 lbs process water

Label language for product supplied in canisters for feeder device: For control of microbial growth in process water used to make consumer, household product in feeder device to continuously dose system at a rate of 25-400 ppm system depending on the severity of contamination.

RAW MATERIAL CLEAN UP Label language for product supplied as powder in general packaging: To reduce microbial contamination in raw materials used to make consumer, household product directly to the raw material at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging: To reduce microbial contamination in raw materials used to make consumer, household product directly to the raw material per 5,000-40,000 lbs of raw material.

Label language for product supplied in canisters for feeder device: Not applicable

DIRECT PRODUCT ADDITION

Label language for product supplied as powder in general packaging: To clean up microbial contamination in a final formulated industrial product, add product directly to the final industrial product prior to packaging.

Label language for product supplied in water soluble packaging: To clean up microbial contamination in a final formulated industrial product, add 40,000 lbs of final formulated product. Addition should be directly to the final product.

Label language for product supplied in canisters for feeder device: Not applicable

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: Product may be added to recycle process water, a recycle product stream or added to reduce microbial contamination. Add at a convenient point of uniform mixing. Label language for product supplied in water soluble packaging: Product may be added to recycle process water, a recycle product stream or added to reduce microbial contamination. Add at a convenient point of uniform mixing water or 2,500-40,000 lbs recycled product. Label language for product supplied in canisters for feeder device: Product may be added to recycle process water, a recycle product stream or added to reduce microbial contamination. Place product in feeder device to continuously dose product per day to the water in the system depending upon the severity of contamination.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: Product may be added as a tankside additive in recirculating electrodeposition systems to control microbial contamination. The product should be added into filter permeate, or final distilled rinse system at a point to ensure uniform mixing. Label language for product supplied in water soluble packaging: Product may be added as a tankside additive in recirculating electrodeposition systems to control microbial contamination. The product should be added into filter permeate, or final distilled rinse system at a point to ensure uniform mixing electrodeposition fluid. Label language for product supplied in canisters for feeder device: Not applicable

EQUIPMENT CLEANING

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: Label language for product supplied in water soluble packaging: Product can be used to control microorganisms present in solution or gaseous equipment such as reaction vessels, storage tanks and containers, piping and equipment, add 10 to 50 ppm by weight product in an aqueous solution, to pre-fouled solutions or equipment may be treated with up to 400 ppm of product. The product, allow product solution to be in contact with surfaces for up to four hours used for cleaning purposes at 50 to 100 ppm available chlorine, the product can be used at 10 to 20 ppm by weight, in combination with sodium hypochlorite. Follow this treatment with the product. Label language for product supplied in canisters for feeder device: Not applicable

OIL FIELD APPLICATIONS

Label language for product supplied as powder in general packaging: For reduction of bacterial contamination and degradation in oil recovery operations at a rate of 6 to 54 ppm depending on the severity of contamination. Label language for product supplied in water soluble packaging: For reduction of bacterial contamination and degradation in oil recovery operations at 2,231-20,000 gal of water in the system, depending on the severity of contamination. Label language for product supplied in canisters for feeder device: For reduction of bacterial contamination and degradation in oil recovery operations to dose system at a rate of 6-54 ppm per day of product to the water in the containment.

HYDROTESTING

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging: For control of bacteria, water used to hydrotest pipelines or vessels should depend on water quality and length of time the equipment will remain idle. Label language for product supplied in water soluble packaging: For control of bacteria, water used to hydrotest pipelines or vessels should depend on water quality and length of time the equipment will remain idle. Label language for product supplied in canisters for feeder device: Not applicable

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AL WATER

California - [Optional]
California
powder in general packaging:
powder in water soluble packaging:
To reduce microbial contamination in various membrane system types (reverse osmosis) used for industrial water processing.
essence of sodium bisulfite or other reducing agents which are being used in a system. In some situations the addition of any reducing agents is required prior to the addition of product in order to avoid neutralization and

water at a rate of 0.2 to 20 ppm based on the feed water flow rate. Apply product basis using an addition cycle of at least 30 minutes. The frequency of addition maintain RO productivity performance. For highly fouled systems, a 20 ppm level may be required until the system performance has recovered.

For an off-line chemical cleaning procedure. Addition should be at a rate of 100 ppm in the feed tank. Following the complete transfer of feed solution, ensure sufficient contact for all RO membrane modules with the DBNPA solution. Rinse as needed.
Streams must not be discharged to lakes, streams, ponds, estuaries, oceans or other water bodies. The requirements of a National Pollutant Discharge Elimination System Permit apply to sewer systems may require approval of the local sewer treatment authority. Contact the State Water Board or Regional Office of the EPA.
canisters for feeder device:

CRACKS
California - [Optional]
powder in general packaging:
water soluble packaging:
BACTERIA
Add 2 ppm by weight of water being treated, depending on the severity of the problem. Addition must be CONTINUOUS and must be made at a point in the system where mixing is ensured. Contact time will be 30 minutes or greater before treatment.

CHLORINE
Water treated. Chlorination must result in a minimum detectable residual (i.e., 0.5 ppm, permit level). Addition must be CONTINUOUS and made at a point just after the filter for maximum effectiveness. Product must be added at a location where it will be mixed before reaching the outfall.
canisters for feeder device:

WASTEWATER HOLDING TANKS
California - [Optional]
powder in general packaging:
water soluble packaging:
Add product to the wastewater stream at a convenient point of uniform mixing such as the digester.
canisters for feeder device:

INDUSTRIAL PROCESSES & PRODUCTS

California - [Optional]
powder in general packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-400 ppm by weight.
water soluble packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of one bag per 2,500-40,000 lbs process water.
canisters for feeder device:

powder in general packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-400 ppm by weight.
water soluble packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of one bag per 2,500-40,000 lbs process water.
canisters for feeder device:

powder in general packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-400 ppm by weight.
water soluble packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of one bag per 2,500-40,000 lbs process water.
canisters for feeder device:

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER

California - [Optional]
powder in general packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-400 ppm by weight.
water soluble packaging:
To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of one bag per 2,500-40,000 lbs process water.
canisters for feeder device:

INDUSTRIAL PROCESSES & PRODUCTS

Not registered for this use in the State of California - [Optional]
Not registered for this use in the State of California
This includes raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions and surfactants.
PROCESS WATER CLEAN UP

Label language for product supplied as powder in general packaging:
To reduce microbial contamination in process water used to make industrial products, add product directly to the water at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:
To reduce microbial contamination in process water used to make industrial products, add product directly to the process water at a concentration of one bag per 2,500-40,000 lbs process water.

Label language for product supplied in canisters for feeder device:
For control of microbial growth in process water used to make consumer, household or institutional products. Place product in feeder device to continuously dose system at a rate of 25-400 ppm per day of product to the water in the system depending on the severity of contamination.

RAW MATERIAL CLEAN UP

Label language for product supplied as powder in general packaging:
To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add the product directly to the raw material at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:
To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add one bag of product directly to the raw material per 5,000-40,000 lbs of raw material.

Label language for product supplied in canisters for feeder device:
Not applicable
DIRECT PRODUCT ADDITION

Label language for product supplied as powder in general packaging:
To clean up microbial contamination in a final formulated industrial product, add 25-100 ppm by weight product directly to the final industrial product prior to packaging.

Label language for product supplied in water soluble packaging:
To clean up microbial contamination in a final formulated industrial product, add one bag of product per 10,000-40,000 lbs of final formulated product. Addition should be directly to the final formulated industrial product prior to packaging.

Label language for product supplied in canisters for feeder device:
Not applicable

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER

Not registered for this use in the State of California - [Optional]
Label language for product supplied as powder in general packaging:
Product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add 25 to 400 ppm by weight.

Label language for product supplied in water soluble packaging:
Product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add one bag per 300-4793 gal of water or 2,500-40,000 lbs recycled product.

Label language for product supplied in canisters for feeder device:
Product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Place product in feeder device to continuously dose system at a rate of 25-400 ppm product per day to the water in the system depending upon the severity of contamination.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

Not registered for this use in the State of California - [Optional]
Label language for product supplied as powder in general packaging:
Product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra filter permeate, or final distilled rinse system at a point to ensure uniform mixing. Add 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:
Product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra filter permeate, or final distilled rinse system at a point to ensure uniform mixing. Add one bag per 300-4793 gal of electrodeposition fluid.

Label language for product supplied in canisters for feeder device:
Not applicable

EQUIPMENT CLEANING

Not registered for this use in the State of California - [Optional]
Label language for product supplied as powder in general packaging:
Label language for product supplied in water soluble packaging:

Product can be used to control microorganisms present in solution or growing on the surfaces of process equipment such as reaction vessels, storage tanks and containers, piping and hoses. For standard cleaning of equipment, add 10 to 50 ppm by weight product in an aqueous solution, to process piping or equipment. Heavily fouled solutions or equipment may be treated with up to 400 ppm of product. After treating process equipment with the product, allow product solution to be in contact with surfaces for up to four hours. If sodium hypochlorite is being used for cleaning purposes at 50 to 250 ppm available chlorine, the product can be used as part of a dual treatment program at 10 to 20 ppm by weight, in combination with sodium hypochlorite. Treat process equipment with sodium hypochlorite first by following label directions. Follow this treatment with the product. Do not combine concentrated sodium hypochlorite solution with the product.
Label language for product supplied in canisters for feeder device:
Not applicable

OIL FIELD APPLICATIONS

Label language for product supplied as powder in general packaging:
For reduction of bacterial contamination and degradation in oil recovery operations, add product to the system at a rate of 6 to 50 ppm depending on the severity of contamination.

Label language for product supplied in water soluble packaging:
For reduction of bacterial contamination and degradation in oil recovery operations, add one bag of product per 2,231-20,000 gal of water in the system depending on the severity of contamination.

Label language for product supplied in canisters for feeder device:
For reduction of bacterial contamination and degradation in oil recovery operations, place product in feeder device to dose system at a rate of 6-54 ppm per day of product to the water in the system depending on the severity of contamination.

HYDROTESTING

Not registered for this use in the State of California - [Optional]
Label language for product supplied as powder in general packaging:
For control of bacteria, water used to hydrotest pipelines or vessels should contain 20 to 200 ppm of product depending on water quality and length of time the equipment will remain idle.

Label language for product supplied in water soluble packaging:
For control of bacteria, water used to hydrotest pipelines or vessels should contain between 20 and 200 ppm product. Add 1 bag per 600-6000 gallons depending on water quality and length of time the equipment will remain idle.

Label language for product supplied in canisters for feeder device:
Not applicable

FRACTURING FLUIDS

Not registered for this use in the State of California - [Optional]
Not registered for this use in the State of California
Label language for product supplied as powder in general packaging:

The product reduces bacterial contamination. The product must be pre-dissolved in pre-dissolved liquid within 24 hours. Frequency and Dose: The product galls water) depending on water quality.

Label language for product supplied in water soluble packaging:
The product reduces bacterial contamination. The product must be pre-dissolved in pre-dissolved liquid within 24 hours. Frequency and Dose: Add one bag per 600-6000 gallons depending on water quality.

Label language for product supplied in canisters for feeder device:
Not applicable

ENHANCED OIL RECOVERY (EOR)

Not registered for this use in the State of California - [Optional]
Not registered for this use in the State of California
Label language for product supplied as powder in general packaging:

The product reduces bacterial contamination. The product must be pre-dissolved in pre-dissolved liquid within 24 hours. Frequency and Dose: The product ensures proper dissolution and mixing.

Label language for product supplied in water soluble packaging:
The product reduces bacterial contamination. The product must be pre-dissolved in pre-dissolved liquid within 24 hours. Frequency and Dose: Add one bag per 600-6000 gallons depending on water quality.

Label language for product supplied in canisters for feeder device:
Not applicable

WATER FLOOD

Not registered for this use in the State of California - [Optional]
Not registered for this use in the State of California
Label language for product supplied as powder in general packaging:

The product can be used to control bacterial contamination. The product can be added within 24 hours. If the system is batch treated two to three times per week, ensure proper dissolution and mixing.

Label language for product supplied in water soluble packaging:
The product can be used to control bacterial contamination. The product can be added within 24 hours. If the system is batch treated two to three times per week, ensure proper dissolution and mixing.

Label language for product supplied in canisters for feeder device:
Not applicable

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INDUSTRIAL PROCESSES & PRODUCTS

Not registered for this use in the State of California - [Optional]
Not registered for this use in the State of California

This includes raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions and surfactants.

PROCESS WATER CLEAN UP

Label language for product supplied as powder in general packaging:

to reduce microbial contamination in process water used to make industrial products, add product directly to the water at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:

to reduce microbial contamination in process water used to make industrial products, add product directly to the process water at a concentration of one bag per 2,500-40,000 lbs process water.

Label language for product supplied in canisters for feeder device:

to control of microbial growth in process water used to make consumer, household or institutional products. Place product in feeder device to continuously dose system at a rate of 25-400 ppm per day of product to the water in the system depending on the severity of contamination.

RAW MATERIAL CLEAN UP

Label language for product supplied as powder in general packaging:

to reduce microbial contamination in raw materials used to make consumer, household or institutional products, add the product directly to the raw material at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:

to reduce microbial contamination in raw materials used to make consumer, household or institutional products, add one bag of product directly to the raw material per 5,000-40,000 lbs of raw material.

Label language for product supplied in canisters for feeder device:

not applicable

DIRECT PRODUCT ADDITION

Label language for product supplied as powder in general packaging:

to clean up microbial contamination in a final formulated industrial product, add 25-100 ppm by weight product directly to the final industrial product prior to packaging.

Label language for product supplied in water soluble packaging:

to clean up microbial contamination in a final formulated industrial product, add one bag of product per 10,000-30,000 lbs of final formulated product. Addition should be directly to the final formulated industrial product prior to packaging.

Label language for product supplied in canisters for feeder device:

not applicable

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add 25 to 400 ppm by weight.

Label language for product supplied in water soluble packaging:

product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Add at a convenient point of uniform mixing. Add one bag per 300-4793 gal of water or 2,500-40,000 lbs recycled product.

Label language for product supplied in canisters for feeder device:

product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Place product in feeder device to continuously dose system at a rate of 25-400 ppm product per day to the water in the system depending upon the severity of contamination.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra pure permeate, or final distilled rinse system at a point to ensure uniform mixing. Add 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:

product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra pure permeate, or final distilled rinse system at a point to ensure uniform mixing. Add one bag per 300-4793 gal of electrodeposition fluid.

Label language for product supplied in canisters for feeder device:

not applicable

EQUIPMENT CLEANING

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

product can be used to control microorganisms present in solution or growing on the surfaces of process equipment such as reaction vessels, storage tanks and containers, piping and hoses. For standard cleaning of equipment, add 10 to 50 ppm by weight product in an aqueous solution, to process piping or equipment. Heavily fouled solutions or equipment may be treated with up to 400 ppm of product. After treating process equipment with the product, allow product solution to be in contact with surfaces for up to four hours. If sodium hypochlorite is being used for cleaning purposes at 50 to 250 ppm available chlorine, the product can be used as part of a dual treatment program at 10 to 20 ppm by weight, in combination with sodium hypochlorite. Treat process equipment with sodium hypochlorite first by following label directions. Follow this treatment with the product. Do not combine concentrated sodium hypochlorite solution with the product.

Label language for product supplied in canisters for feeder device:

not applicable

OIL FIELD APPLICATIONS

Label language for product supplied as powder in general packaging:

to reduce bacterial contamination and degradation in oil recovery operations, add product to the system at a rate of 6 to 54 ppm depending on the severity of contamination.

Label language for product supplied in water soluble packaging:

to reduce bacterial contamination and degradation in oil recovery operations, add one bag of product per 2,311-20,000 gal of water in the system depending on the severity of contamination.

Label language for product supplied in canisters for feeder device:

to reduce bacterial contamination and degradation in oil recovery operations, place product in feeder device to dose system at a rate of 6-54 ppm per day of product to the water in the system depending on the severity of contamination.

HYDROTESTING

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

to control of bacteria, water used to hydrotest pipelines or vessels should contain 20 to 200 ppm of product depending on water quality and length of time the equipment will remain idle.

Label language for product supplied in water soluble packaging:

to control of bacteria, water used to hydrotest pipelines or vessels should contain between 20 and 200 ppm product. Add 1 bag per 600-6000 gallons depending on water quality and length of time the equipment will remain idle.

Label language for product supplied in canisters for feeder device:

not applicable

FRACTURING FLUIDS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

Label language for product supplied as powder in general packaging:

The product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. The product must be added to the water storage tanks before gelling and circulated to ensure mixing.

The product can be pre-dissolved in warm water and added at the well head for "on-the-fly" fracturing jobs. Use all pre-dissolved liquid within 24 hours.

Frequency and Dose: The product must be added at a rate of 18 to 54 ppm active (0.15-0.45 lbs. product/1,000 gallons water) depending on water quality. Retreat after 48 hours if the frac job is delayed.

Label language for product supplied in water soluble packaging:

The product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. The product must be added to the water storage tanks before gelling and circulated to ensure mixing.

The product can be pre-dissolved in warm water and added at the well head for "on-the-fly" fracturing jobs. Use all pre-dissolved liquid within 24 hours.

Frequency and Dose: Add one bag of product for every 2,231-6,500 gal of water depending on water quality. Retreat after 48 hours if the frac job is delayed.

Label language for product supplied in canisters for feeder device:

Not applicable

ENHANCED OIL RECOVERY (EOR) FLUIDS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

Label language for product supplied as powder in general packaging:

The product reduces bacterial contamination and degradation of EOR polymers and gels. The product must be added to injection water before polymer addition.

Frequency and Dose: The product must be added at a rate of 6 to 54 ppm. Dry product must be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in water soluble packaging:

The product reduces bacterial contamination and degradation of EOR polymers and gels. The product should be added to injection water before polymer addition.

Frequency and Dose: Add one bag of product per 2,231-20,000 gal of water. Product should be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in canisters for feeder device:

The product may be dosed using a feeder device to reduce bacterial contamination and degradation of EOR polymers and gels. The product must be added to injection water before polymer addition.

Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired dosing level. Use product in canisters to continuously dose system at a rate of 6 to 54 ppm depending on the severity of contamination. Badly fouled systems must be cleaned before treatment is begun. The feeding device should dose at a point to ensure proper dissolution and mixing.

WATER FLOOD

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

The product can be used to control slime and corrosion causing bacteria in waters used for secondary oil and gas recovery. The product can be added as a dry product or pre-dissolved in warm water. Use all pre-dissolved liquid within 24 hours. If the system is heavily fouled, slug treat at the higher rate to remove biofilm. For maintenance, batch treat two to three times per week.

Frequency and Dose: The product must be added at a rate of 6 to 54 ppm. Dry product must be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in water soluble packaging:

The product can be used to control slime and corrosion causing bacteria in waters used for secondary oil and gas recovery. The product can be added as a dry product or pre-dissolved in warm water. Use all pre-dissolved liquid within 24 hours. If the system is heavily fouled, slug treat at the higher rate to remove biofilm. For maintenance, batch treat two to three times per week.

Frequency and Dose: Add one bag of product per 2,231-20,000 gal of water. The product should be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in canisters for feeder device:

NOTIFICATION
Date Reviewed: 2/1/2013
Reviewed By: S. [Signature]

Produced For - When produced by a contract manufacturer



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